

SEQUENCE LISTING

<110> Blaschuk, Orest W.
Michaud, Stephanie D.

<120> COMPOUNDS AND METHODS FOR MODULATING
FUNCTIONS OF NONCLASSICAL CADHERINS

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Ser Trp Val Trp Asn Gln Phe
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Ser Trp Val Trp Asn Gln Phe Phe
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Arg Ser Trp Val Trp
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Lys Arg Ser Trp Val
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Lys Arg Ser Trp Val Trp
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Lys Arg Ser Trp Val Trp Asn
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<223> Exemplary Trp-containing CAR sequences for atypical cadherins

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Ala Trp Val Ile Pro Pro Ile
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<210> 133

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<223> Exemplary Trp-containing CAR sequences for atypical cadherins

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Ala Trp Val Ile Pro Pro Ile Ser
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<223> Exemplary Trp-containing CAR sequences for
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Ala Trp Val Ile Pro Pro Ile Ser Val
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<223> Exemplary Trp-containing CAR sequences for
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Trp Val Ile Pro Pro Ile
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Trp Val Ile Pro Pro Ile Ser
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<223> Exemplary Trp-containing CAR sequences for
atypical cadherins

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Trp Val Ile Pro Pro Ile Ser Val
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Arg Ala Trp Val

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Lys Arg Ala Trp Val
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Lys Arg Ala Trp Val Ile
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Lys Arg Ala Trp Val Ile Pro
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Val Trp Asn Gln
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Val Trp Asn Gln Met
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<223> Exemplary Trp-containing CAR sequences for
atypical cadherins

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Val Trp Asn Gln Phe
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Val Trp Asn Gln Met Phe
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<223> Exemplary Trp-containing CAR sequences for
atypical cadherins

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Val Trp Asn Gln Phe Phe
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<223> Exemplary Trp-containing CAR sequences for
atypical cadherins

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Trp Asn Gln Met
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<223> Exemplary Trp-containing CAR sequences for
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Trp Asn Gln Phe

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atypical cadherins

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Trp Asn Gln Phe Phe

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atypical cadherins

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Ile Trp Asn Gln

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atypical cadherins

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Ile Trp Asn Gln Met

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<223> Exemplary Trp-containing CAR sequences for
atypical cadherins

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Ile Trp Asn Gln Met His
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<223> Exemplary Trp-containing CAR sequences for
atypical cadherins

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Trp Asn Gln Met His
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<223> Exemplary Trp-containing CAR sequences for
atypical cadherins

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Met Trp Asn Gln
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<211> 5

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<223> Exemplary Trp-containing CAR sequences for
atypical cadherins

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Met Trp Asn Gln Phe
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<223> Exemplary Trp-containing CAR sequences for
atypical cadherins

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Met Trp Asn Gln Phe Phe
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<210> 167

<211> 6

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<223> Consensus sequence shared by certain desmosomal
cadherin Trp-containing CAR sequence

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<221> VARIANT

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<223> Xaa = Glu, Ala or Arg

<220>

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<222> 3

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<220>

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<223> Xaa = Lys, Thr or Pro

<220>

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<223> Xaa = Phe, Ala or Ile

<220>

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<400> 167

Xaa Trp Xaa Xaa Xaa Xaa
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<223> Representative desmosomal cadherin Trp-containing
CAR sequence

<400> 168
Glu Trp Ile Lys Phe Ala
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CAR sequence

<400> 169
Ala Trp Ile Thr Ala Pro
1 5

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CAR sequence

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Glu Trp Val Lys Phe Ala
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Arg Trp Ala Pro
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Arg Trp Ala Pro Ile
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Arg Trp Ala Pro Ile Pro Cys
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Arg Trp Ala Pro Ile Pro Cys Ser Met
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Trp Ala Pro Ile
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Trp Ala Pro Ile Pro
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Trp Ala Pro Ile Pro Cys
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Trp Ala Pro Ile Pro Cys Ser
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Trp Ala Pro Ile Pro Cys Ser Met
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Arg Trp Ala Pro Ile Pro Cys Ala Ser
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Trp Ala Pro Ile Pro Cys Ala Ser
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Glu Trp Ile Lys
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<223> Exemplary desmosomal Trp-containing CAR sequence

<400> 188

Glu Trp Ile Lys Phe
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<400> 189

Glu Trp Ile Lys Phe Ala Ala

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<210> 190

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<223> Exemplary desmosomal Trp-containing CAR sequence

<400> 190

Glu Trp Ile Lys Phe Ala Ala Ala

1

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<210> 191

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<400> 191

Glu Trp Ile Lys Phe Ala Ala Ala Cys

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<223> Exemplary desmosomal Trp-containing CAR sequence

<400> 192

Trp Ile Lys Phe

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<210> 193

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<400> 193

Trp Ile Lys Phe Ala

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Trp Ile Lys Phe Ala Ala
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Trp Ile Lys Phe Ala Ala Ala
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Trp Ile Lys Phe Ala Ala Ala Cys
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Glu Trp Val Lys Phe
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<400> 201
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Trp Val Lys Phe
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Trp Val Lys Phe Ala Lys
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Trp Val Lys Phe Ala Lys Pro Cys
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Ala Trp Ile Thr
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<400> 208
Ala Trp Ile Thr Ala
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Cys Ala Trp Val Cys

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Cys Ala Trp Val Ile Cys

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Cys Ala Trp Val Ile Pro Cys

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 Cys Arg Gly Trp Cys
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<210> 1281

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Glu Glu Trp Val Lys
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<210> 1282

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Glu Glu Trp Val Lys Lys
1 5

<210> 1283

<211> 7

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Glu Glu Trp Val Lys Phe Lys
1 5

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 1 5

<210> 1286
 <211> 10
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 1 5 10

<210> 1287
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<220>
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 Glu Glu Trp Val Lys Phe Ala Lys Pro Cys Lys
 1 5 10

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<400> 1288

Glu Trp Val Lys Lys
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<210> 1289

<211> 6

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1 5

<210> 1290

<211> 8

<212> PRT

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<220>

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Glu Trp Val Lys Phe Ala Lys Lys
1 5

<210> 1291

<211> 9

<212> PRT

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Glu Trp Val Lys Phe Ala Lys Pro Lys
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<210> 1292

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Glu Trp Val Lys Phe Ala Lys Pro Cys Lys
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<210> 1293

<211> 5

<212> PRT

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<400> 1293

Glu Ala Trp Ile Lys
1 5

<210> 1294

<211> 6

<212> PRT

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<220>

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<400> 1294

Glu Ala Trp Ile Thr Lys
1 5

<210> 1295

<211> 7

<212> PRT

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1 5

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<210> 1303
<211> 8
<212> PRT
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<220>
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Glu Trp Ile Thr Ala Pro Val Lys
1 5

<210> 1304
<211> 9
<212> PRT
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<220>
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<400> 1304
Glu Trp Ile Thr Ala Pro Val Ala Lys
1 5

<210> 1305
<211> 10
<212> PRT
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<220>

<223> Exemplary cyclic peptide

<400> 1305

Glu	Trp	Ile	Thr	Ala	Pro	Val	Ala	Leu	Lys
1				5					10

<210> 1306

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Preferred CAR sequence for inclusion with a
modulating agent

<400> 1306

Tyr	Ile	Gly	Ser	Arg
1			5	

<210> 1307

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Preferred CAR sequence for inclusion with a
modulating agent

<400> 1307

Lys	Tyr	Ser	Phe	Asn	Tyr	Asp	Gly	Ser	Glu
1				5					10

<210> 1308

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Preferred CAR sequence for inclusion with a
modulating agent

<400> 1308

Ser	Phe	Thr	Ile	Asp	Pro	Lys	Ser	Gly
1				5				

<210> 1309

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Preferred CAR sequence for inclusion with a

modulating agent

<400> 1309

Leu Tyr His Tyr

1

<210> 1310

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Claudin CAR sequence comprising at least four
consecutive amino acids present within a claudin
region

<220>

<221> VARIANT

<222> 2

<223> Xaa = Lys or Arg

<220>

<221> VARIANT

<222> 3

<223> Xaa = any amino acid

<220>

<221> VARIANT

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<223> Xaa = any amino acid

<220>

<221> VARIANT

<222> 5

<223> Xaa = Ser or Ala

<220>

<221> VARIANT

<222> 6

<223> Xaa = Tyr or Phe

<220>

<221> VARIANT

<222> 7

<223> Xaa = any amino acid

<400> 1310

Trp Xaa Xaa Xaa Xaa Xaa Xaa Gly

1

5

<210> 1311

<211> 9

<212> PRT

<213> Artificial Sequence

<220>
 <223> Atypical cadherin CAR sequence comprising at least
 three consecutive amino acids present within an
 atypical cadherin region

<220>
 <221> VARIANT
 <222> 1,3
 <223> Xaa = any amino acid

<220>
 <221> VARIANT
 <222> 4
 <223> Xaa = Ile, Leu or Val

<220>
 <221> VARIANT
 <222> 5
 <223> Xaa = Asp, Asn or Glu

<220>
 <221> VARIANT
 <222> 6,7
 <223> Xaa = any amino acid

<220>
 <221> VARIANT
 <222> 8
 <223> Xaa = Ser, Thr or Asn

<400> 1311
 Xaa Phe Xaa Xaa Xaa Xaa Xaa Gly
 1 5

<210> 1312
 <211> 4
 <212> PRT
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<220>
 <223> Representative claudin CAR sequence

<400> 1312
 Ile Tyr Ser Tyr
 1

<210> 1313
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Representative claudin CAR sequence

<400> 1313
 Thr Ser Ser Tyr
 1

<210> 1314
 <211> 4
 <212> PRT
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<220>
 <223> Representative claudin CAR sequence

<400> 1314
 Val Thr Ala Phe
 1

<210> 1315
 <211> 4
 <212> PRT
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<220>
 <223> Representative claudin CAR sequence

<400> 1315
 Val Ser Ala Phe
 1

<210> 1316
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1316
 Cys Gly Trp Val Met Asn Gln Gly Trp Val Met Asn Gln Cys
 1 5 10

<210> 1317
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1317

Cys Arg Trp Ala Pro Ile Pro Arg Trp Ala Pro Ile Pro Cys
 1 5 10

<210> 1318

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1318

Cys Gly Trp Val Met Asn Gln Gln Asn Met Val Trp Gly Cys
 1 5 10

<210> 1319

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1319

Cys Gln Asn Met Val Trp Gly Gly Trp Val Met Asn Gln Cys
 1 5 10

<210> 1320

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1320

Cys Arg Trp Ala Pro Ile Pro Pro Ile Pro Ala Trp Arg Cys
 1 5 10

<210> 1321

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1321

Cys Pro Ile Pro Ala Trp Arg Arg Trp Ala Pro Ile Pro Cys
 1 5 10

<210> 1322

<211> 5

<212> PRT

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<220>

<223> Peptide used in cyclization

<400> 1322

Cys Gly Trp Val Cys
 1 5

<210> 1323

<211> 8

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<220>

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<400> 1323

Cys Gly Trp Val Trp Asn Gln Cys
 1 5

<210> 1324

<211> 7

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<220>

<223> Peptide used in cyclization

<400> 1324

Cys Gly Trp Val Trp Asn Cys
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<210> 1325

<211> 6

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<400> 1325

Cys Arg Gly Trp Val Cys
 1 5

<210> 1326
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<400> 1326
Cys Arg Gly Trp Val Trp Cys
1 5

<210> 1327
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<400> 1327
Cys Gly Trp Val Cys Asn
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<210> 1328
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<400> 1328
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<210> 1329
<211> 10
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<220>
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<400> 1329
Cys Arg Gly Trp Val Trp Asn Gln Phe Cys
1 5 10

<210> 1330
<211> 11
<212> PRT
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<223> Peptide used in cyclization

<400> 1330

Cys Arg Gly Trp Val Trp Asn Gln Phe Phe Cys
1 5 10

<210> 1331

<211> 10

<212> PRT

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<221> MOD_RES

<222> 2

<223> Xaa = beta,beta-tetramethylene cysteine

<400> 1331

Ile Xaa Gly Trp Val Trp Asn Gln Cys Glu
1 5 10

<210> 1332

<211> 9

<212> PRT

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<222> 2

<223> Xaa = beta,beta -pentamethylene cysteine

<400> 1332

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<210> 1333

<211> 8

<212> PRT

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<400> 1333

Gly Trp Val Trp Asn Gln Pro Cys
1 5

<210> 1334
<211> 6
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<400> 1334
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1 5

<210> 1335
<211> 8
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<400> 1335
Cys Arg Trp Ala Pro Ile Pro Cys
1 5

<210> 1336
<211> 7
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<400> 1336
Cys Arg Trp Ala Pro Ile Cys
1 5

<210> 1337
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<400> 1337
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<210> 1338
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<400> 1338
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1 5 10

<210> 1339
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Cys Arg Trp Ala Cys Asn
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<210> 1340
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<400> 1340
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Cys Arg Trp Ala Pro Ile Pro Cys Ser Cys
1 5 10

<210> 1342

<211> 11
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<400> 1342
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 1 5 10

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 <223> Xaa = beta,beta-tetramethylene cysteine

<400> 1343
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<210> 1344
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<400> 1344
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<400> 1345

Arg Trp Ala Pro Ile Pro Cys Cys

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<210> 1346

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Lys Arg Trp Ala Pro Ile Pro Asp

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<210> 1347

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<400> 1347

Glu Asp Ala Cys

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Asp Cys Cys Ile

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<210> 1349

<211> 6

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<220>

<223> Modulating agent

<400> 1349

Ser His Ala Val Ser Ser

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<210> 1350
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<400> 1350
 Ala His Ala Val Asp Ile
 1 5

<210> 1351
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 Phe His Leu Arg Ala His Ala Val Asp Ile Asn Gly Asn Gln Val
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<210> 1352
 <211> 48
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<220>
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 Ile Tyr Ala Leu Cys Asn Gln Phe Tyr Thr Pro Ala Ala Thr Gly Leu
 20 25 30
 Tyr Val Asp Gln Tyr Leu Tyr His Tyr Cys Val Val Asp Pro Gln Glu
 35 40 45

<210> 1353
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 <212> PRT
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<220>
 <223> Trp-containing cell adhesion recognition sequence

<400> 1353
 Gly Trp Val Trp Asn Gln
 1 5

<210> 1354
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<400> 1354
Asp Trp Ile Trp Asn Gln
1 5

<210> 1355
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<400> 1355
Ser Trp Met Trp Asn Gln
1 5

<210> 1356
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<210> 1357
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<400> 1357
Gly Trp Met Trp Asn Gln
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<211> 5

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<400> 1360

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<210> 1361

<211> 4

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<400> 1361

Val Asp Phe Glu

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<211> 4

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<223> Calcium binding motif

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<210> 1363
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<210> 1364
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<210> 1365
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<220>
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<400> 1365
Asp Val Asn Asp Glu
1 5

<210> 1366
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<210> 1367
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<400> 1368
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<400> 1369
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<210> 1370
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<400> 1370
Asp Ile Asn Asp
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 Tyr Thr Gly Pro Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile
 20 25 30
 Asp Ser Gly Asp Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala
 35 40 45
 Gly Thr Ile Phe Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr
 50 55 60
 Lys Thr Leu Asp Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln
 65 70 75 80
 Ala Val Asp Arg Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe
 85 90 95
 Ile Val Lys Val Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe
 100 105 110

<210> 1372
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<220>
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<400> 1372
 Arg Gln Lys Arg Asp Trp Ile Trp Asn Gln Met His Ile Asp Glu Glu
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 Lys Asn Thr Ser Leu Pro His His Val Gly Lys Ile Lys Ser Ser Val
 20 25 30
 Ser Arg Lys Asn Ala Lys Tyr Leu Leu Lys Gly Glu Tyr Val Gly Lys
 35 40 45
 Val Phe Arg Val Asp Ala Glu Thr Gly Asp Val Phe Ala Ile Glu Arg
 50 55 60
 Leu Asp Arg Glu Asn Ile Ser Glu Tyr His Leu Thr Ala Val Ile Val
 65 70 75 80
 Asp Lys Asp Thr Gly Glu Asn Leu Glu Thr Pro Ser Ser Phe Thr Ile
 85 90 95
 Lys Val His Asp Val Asn Asp Asn Trp Pro Val Phe
 100 105

<210> 1373
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 <223> Cad6 sequence

<400> 1373

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Arg Ser Lys Arg Ser Trp Met Trp Asn Gln Phe Phe Leu Leu Glu Glu
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Tyr Thr Gly Ser Asp Tyr Gln Tyr Val Gly Lys Leu His Ser Asp Gln
              20              25              30
Asp Arg Gly Asp Gly Ser Leu Lys Tyr Ile Leu Ser Gly Asp Gly Ala
              35              40              45
Gly Asp Leu Phe Ile Ile Asn Glu Asn Thr Gly Asp Ile Gln Ala Thr
              50              55              60
Lys Arg Leu Asp Arg Glu Glu Lys Pro Val Tyr Ile Leu Arg Ala Gln
65              70              75              80
Ala Ile Asn Arg Arg Thr Gly Arg Pro Val Glu Pro Glu Ser Glu Phe
              85              90              95
Ile Ile Lys Ile His Asp Ile Asn Asp Asn Glu Pro Ile Phe
              100              105              110

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<210> 1374

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<212> PRT

<213> unknown

<220>

<223> Cad7 sequence

<400> 1374

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Arg Thr Lys Arg Ser Trp Val Trp Asn Gln Phe Phe Val Leu Glu Glu
 1              5              10              15
Tyr Met Gly Ser Asp Pro Leu Tyr Val Gly Lys Leu His Ser Asp Val
              20              25              30
Asp Lys Gly Asp Gly Ser Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala
              35              40              45
Ser Ser Ile Phe Ile Ile Asp Glu Asn Thr Gly Asp Ile His Ala Thr
              50              55              60
Lys Arg Leu Asp Arg Glu Glu Gln Ala Tyr Tyr Thr Leu Arg Ala Gln
65              70              75              80
Ala His Asp Arg Arg Leu Thr Asn Lys Pro Val Glu Pro Glu Ser Glu Phe
              85              90              95
Val Ile Lys Ile Gln Asp Ile Asn Asp Asn Glu Pro Lys Phe
              100              105              110

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<210> 1375

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<213> unknown

<220>

<223> Cad8 sequence

<400> 1375

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Arg Ser Lys Arg Gly Trp Val Trp Asn Gln Met Phe Val Leu Glu Glu
 1              5              10              15
Phe Ser Gly Pro Glu Pro Ile Leu Val Gly Arg Leu His Thr Asp Leu
              20              25              30
Asp Pro Gly Ser Lys Lys Ile Lys Tyr Ile Leu Ser Gly Asp Gly Ala

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	35					40				45					
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	50					55					60				
Lys	Arg	Leu	Asp	Arg	Glu	Glu	Lys	Ala	Glu	Tyr	Thr	Leu	Thr	Ala	Gln
65					70					75					80
Ala	Val	Asp	Trp	Glu	Thr	Ser	Lys	Pro	Leu	Glu	Pro	Pro	Ser	Glu	Phe
				85					90					95	
Ile	Ile	Lys	Val	Gln	Asp	Ile	Asn	Asp	Asn	Ala	Pro	Glu	Phe		
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<210> 1376
 <211> 110
 <212> PRT
 <213> unknown

<220>
 <223> Cad12 sequence

Arg	Val	Lys	Arg	Gly	Trp	Val	Trp	Asn	Gln	Phe	Phe	Val	Leu	Glu	Glu
1				5					10					15	
Tyr	Val	Gly	Ser	Glu	Pro	Gln	Tyr	Val	Gly	Lys	Leu	His	Ser	Asp	Leu
			20					25					30		
Asp	Lys	Gly	Glu	Gly	Thr	Val	Lys	Tyr	Thr	Leu	Ser	Gly	Asp	Gly	Ala
		35					40					45			
Gly	Thr	Val	Phe	Thr	Ile	Asp	Glu	Thr	Thr	Gly	Asp	Ile	His	Ala	Ile
	50					55					60				
Arg	Ser	Leu	Asp	Arg	Glu	Glu	Lys	Pro	Phe	Tyr	Thr	Leu	Arg	Ala	Gln
65					70					75					80
Ala	Val	Asp	Ile	Glu	Thr	Arg	Lys	Pro	Leu	Glu	Pro	Glu	Ser	Glu	Phe
				85					90					95	
Ile	Ile	Lys	Val	Gln	Asp	Ile	Asn	Asp	Asn	Glu	Pro	Lys	Phe		
			100					105					110		

<210> 1377
 <211> 110
 <212> PRT
 <213> unknown

<220>
 <223> Cad14 sequence

Arg	Pro	Lys	Arg	Gly	Trp	Val	Trp	Asn	Gln	Phe	Phe	Val	Leu	Glu	Glu
1				5					10					15	
His	Met	Gly	Pro	Asp	Pro	Gln	Tyr	Val	Gly	Lys	Leu	His	Ser	Asn	Ser
			20					25					30		
Asp	Lys	Gly	Asp	Gly	Ser	Val	Lys	Tyr	Ile	Leu	Thr	Gly	Glu	Gly	Ala
		35					40					45			
Gly	Thr	Ile	Phe	Ile	Ile	Asp	Asp	Thr	Thr	Gly	Asp	Ile	His	Ser	Thr
	50					55					60				
Lys	Ser	Leu	Asp	Arg	Glu	Gln	Lys	Thr	His	Tyr	Val	Leu	His	Ala	Gln
65					70					75					80
Ala	Ile	Asp	Arg	Arg	Thr	Asn	Lys	Pro	Leu	Glu	Pro	Glu	Ser	Glu	Phe

			85					90					95
Ile	Ile	Lys	Val	Gln	Asp	Ile	Asn	Asp	Asn	Ala	Pro	Lys	Phe
			100					105					110

<210> 1378
 <211> 110
 <212> PRT
 <213> unknown

<220>
 <223> PBcad sequence

<400> 1378

Arg	Val	Lys	Arg	Gly	Trp	Val	Trp	Asn	Gln	Phe	Phe	Val	Val	Glu	Glu
1				5				10						15	
Tyr	Thr	Gly	Thr	Glu	Pro	Leu	Tyr	Val	Gly	Lys	Ile	His	Ser	Asp	Ser
			20					25					30		
Asp	Glu	Gly	Asp	Gly	Thr	Ile	Lys	Tyr	Thr	Ile	Ser	Gly	Glu	Gly	Ala
		35					40					45			
Gly	Thr	Ile	Phe	Leu	Ile	Asp	Glu	Leu	Thr	Gly	Asp	Ile	His	Ala	Thr
	50					55					60				
Glu	Arg	Leu	Asp	Arg	Glu	Gln	Lys	Thr	Phe	Tyr	Thr	Leu	Arg	Ala	Gln
65					70					75					80
Ala	Arg	Asp	Arg	Ala	Thr	Asn	Arg	Leu	Leu	Glu	Pro	Glu	Ser	Glu	Phe
				85					90					95	
Ile	Ile	Lys	Val	Gln	Asp	Ile	Asn	Asp	Ser	Glu	Pro	Arg	Phe		
			100					105					110		

<210> 1379
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 1379

Gly	Trp	Val	Trp	Asn	Gln	Phe	Phe	Val	Ile	Glu	Glu	Tyr	Thr	Gly	Pro
1				5				10						15	
Asp	Pro	Val	Leu	Val	Gly	Arg	Leu	His	Ser	Asp	Ile	Asp	Ser	Gly	Asp
			20					25					30		
Gly	Asn	Ile	Lys	Tyr	Ile	Leu	Ser	Gly	Glu	Gly	Ala	Gly	Thr	Ile	Phe
		35					40					45			
Val	Ile	Asp	Asp	Lys	Ser	Gly	Asn	Ile	His	Ala	Thr	Lys	Thr	Leu	Asp
	50					55					60				
Arg	Glu	Glu	Arg	Ala	Gln	Tyr	Thr	Leu	Met	Ala	Gln	Ala	Val	Asp	Arg
65					70					75					80
Asp	Thr	Asn	Arg	Pro	Leu	Glu	Pro	Pro	Ser	Glu	Phe	Ile	Val	Lys	Val
				85					90					95	
Gln	Asp	Ile	Asn	Asp	Asn	Pro	Pro	Glu	Phe						
			100					105							

<210> 1380
 <211> 106
 <212> PRT
 <213> Mus musculus

<400> 1380

```

Gly Trp Val Trp Asn Gln Phe Phe Val Ile Glu Glu Tyr Thr Gly Pro
 1           5           10           15
Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile Asp Ser Gly Asp
          20           25           30
Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala Gly Thr Ile Phe
          35           40           45
Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr Lys Thr Leu Asp
          50           55           60
Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln Ala Val Asp Arg
65           70           75           80
Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe Ile Val Lys Val
          85           90           95
Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe
          100           105

```

<210> 1381

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Calcium binding motif

<400> 1381

```

Val Asp Tyr Glu
 1

```

<210> 1382

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Calcium binding motif

<400> 1382

```

Asp Asp Asn Asp Asn
 1           5

```

<210> 1383

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Calcium binding motif

<400> 1383

```

Asp Tyr Asn Asp Asn
 1           5

```

<210> 1384
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Calcium binding motif

<400> 1384
 Asp Ser Asn Asp Asn
 1 5

<210> 1385
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1385
 Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
 1 5 10 15
 Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys Ala Ala Asn Gln
 20 25 30
 Gln Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Tyr
 35 40 45
 Gly Ile Phe Val Ile Asn Gln Lys Thr Gly Glu Ile Asn Ile Thr Ser
 50 55 60
 Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Ile Tyr Cys Arg Ala
 65 70 75 80
 Leu Asn Ser Met Gly Gln Asp Leu Glu Arg Pro Leu Glu Leu Arg Val
 85 90 95
 Arg Val Leu Asp Ile Asn Asp Asn Pro Pro Val Phe
 100 105

<210> 1386
 <211> 108
 <212> PRT
 <213> Bos tarus

<400> 1386
 Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
 1 5 10 15
 Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys Ala Ala Asn Gln
 20 25 30
 Gln Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Tyr
 35 40 45
 Gly Ile Phe Val Ile Asn Gln Lys Thr Gly Glu Ile Asn Ile Thr Ser
 50 55 60
 Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Ile Tyr Cys Arg Ala
 65 70 75 80
 Leu Asn Ser Leu Gly Gln Asp Leu Glu Lys Pro Leu Glu Leu Arg Val
 85 90 95
 Arg Val Leu Asp Ile Asn Asp Asn Pro Pro Val Phe
 100 105

<210> 1387
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 1387
 Ala Trp Ile Thr Ala Pro Val Ala Leu Arg Glu Gly Glu Asp Leu Ser
 1 5 10 15
 Lys Lys Asn Pro Ile Ala Lys Ile His Ser Asp Leu Ala Glu Glu Arg
 20 25 30
 Gly Leu Lys Ile Thr Tyr Lys Tyr Thr Gly Lys Gly Ile Thr Glu Pro
 35 40 45
 Pro Phe Gly Ile Phe Val Phe Asn Lys Asp Thr Gly Glu Leu Asn Val
 50 55 60
 Thr Ser Ile Leu Asp Arg Glu Glu Thr Pro Phe Phe Leu Leu Thr Gly
 65 70 75 80
 Tyr Ala Leu Asp Ala Arg Gly Asn Asn Val Glu Lys Pro Leu Glu Leu
 85 90 95
 Arg Ile Lys Val Leu Asp Ile Asn Asp Asn Glu Pro Val Phe
 100 105 110

<210> 1388
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1388
 Glu Trp Val Lys Phe Ala Lys Pro Cys Arg Glu Gly Glu Asp Asn Ser
 1 5 10 15
 Lys Arg Asn Pro Ile Ala Lys Ile Thr Ser Asp Tyr Gln Ala Thr Gln
 20 25 30
 Lys Ile Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Phe
 35 40 45
 Gly Ile Phe Val Val Asp Lys Asn Thr Gly Asp Ile Asn Ile Thr Ala
 50 55 60
 Ile Val Asp Arg Glu Glu Thr Pro Ser Phe Leu Ile Thr Cys Arg Ala
 65 70 75 80
 Leu Asn Ala Gln Gly Leu Asp Val Glu Lys Pro Leu Ile Leu Thr Val
 85 90 95
 Lys Ile Leu Asp Ile Asn Asp Asn Pro Pro Val Phe
 100 105

<210> 1389
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 1389
 Glu Trp Val Lys Phe Ala Lys Pro Cys Arg Glu Arg Glu Asp Asn Ser
 1 5 10 15
 Arg Arg Asn Pro Ile Ala Lys Ile Thr Ser Asp Phe Gln Lys Asn Gln
 20 25 30

```

Lys Ile Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Phe
   35                               40           45
Gly Ile Phe Val Val Asp Pro Asn Asn Gly Asp Ile Asn Ile Thr Ala
   50                               55           60
Ile Val Asp Arg Glu Glu Thr Pro Ser Phe Leu Ile Thr Cys Arg Ala
  65                               70           75           80
Leu Asn Ala Leu Gly Gln Asp Val Glu Arg Pro Leu Ile Leu Thr Val
   85                               90           95
Lys Ile Leu Asp Val Asn Asp Asn Pro Pro Ile Phe
   100                               105

```

```

<210> 1390
<211> 108
<212> PRT
<213> Homo sapiens

```

```

<400> 1390
Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
  1                               5           10           15
Lys Arg Asn Pro Ile Ala Lys Ile Arg Ser Asp Cys Glu Ser Asn Gln
   20                               25           30
Lys Ile Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Arg Pro Pro Tyr
   35                               40           45
Gly Val Phe Thr Ile Asn Pro Arg Thr Gly Glu Ile Asn Ile Thr Ser
   50                               55           60
Val Val Asp Arg Glu Ile Thr Pro Leu Phe Leu Ile Tyr Cys Arg Ala
  65                               70           75           80
Leu Asn Ser Arg Gly Glu Asp Leu Glu Arg Pro Leu Glu Leu Arg Val
   85                               90           95
Lys Val Met Asp Ile Asn Asp Asn Ala Pro Val Phe
   100                               105

```

```

<210> 1391
<211> 108
<212> PRT
<213> Mus musculus

```

```

<400> 1391
Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
  1                               5           10           15
Lys Arg Asn Pro Ile Ala Arg Ile Arg Ser Asp Cys Glu Val Ser Gln
   20                               25           30
Arg Ile Thr Tyr Arg Ile Ser Gly Ala Gly Ile Asp Arg Pro Pro Tyr
   35                               40           45
Gly Val Phe Thr Ile Asn Pro Arg Thr Gly Glu Ile Asn Ile Thr Ser
   50                               55           60
Val Val Asp Arg Glu Ile Thr Pro Leu Phe Leu Ile His Cys Arg Ala
  65                               70           75           80
Leu Asn Ser Arg Gly Glu Asp Leu Glu Arg Pro Leu Glu Leu Arg Val
   85                               90           95
Lys Val Met Asp Val Asn Asp Asn Pro Pro Val Phe
   100                               105

```

<210> 1392
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 1392
 Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
 1 5 10 15
 Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys Ala Ala Asn Gln
 20 25 30
 Pro Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Tyr
 35 40 45
 Gly Ile Phe Ile Ile Asn Gln Lys Thr Gly Glu Ile Asn Ile Thr Ser
 50 55 60
 Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Ile Tyr Cys Arg Ala
 65 70 75 80
 Leu Asn Ala Gln Gly Gln Asp Leu Glu Asn Pro Leu Glu Leu Arg Val
 85 90 95
 Arg Val Met Asp Ile Asn Asp Asn Pro Pro Val Phe
 100 105

<210> 1393
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 1393
 Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
 1 5 10 15
 Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys Ala Ala Asn Gln
 20 25 30
 Pro Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Tyr
 35 40 45
 Gly Ile Phe Ile Ile Asn Gln Lys Thr Gly Glu Ile Asn Ile Thr Ser
 50 55 60
 Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Ile Tyr Cys Arg Ala
 65 70 75 80
 Leu Asn Ala Gln Gly Gln Asp Leu Glu Asn Pro Leu Glu Leu Arg Val
 85 90 95
 Arg Val Met Asp Ile Asn Asp Asn Pro Pro Val Phe
 100 105

<210> 1394
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1394
 Arg Trp Ala Pro Ile Pro Ala Ser Leu Met Glu Asn Ser Leu Gly Pro
 1 5 10 15
 Phe Pro Gln His Val Gln Gln Ile Gln Ser Asp Ala Ala Gln Asn Tyr
 20 25 30
 Thr Ile Phe Tyr Ser Ile Ser Gly Pro Gly Val Asp Lys Glu Pro Phe
 35 40 45

```

Asn Leu Phe Tyr Ile Glu Lys Asp Thr Gly Asp Ile Phe Cys Thr Arg
 50          55          60
Ser Ile Asp Arg Glu Lys Tyr Glu Gln Phe Ala Leu Tyr Gly Tyr Ala
65          70          75          80
Thr Thr Ala Asp Gly Tyr Ala Pro Glu Tyr Pro Leu Pro Leu Ile Ile
          85          90          95
Lys Ile Glu Asp Asp Asn Asp Asn Ala Pro Tyr Phe
          100          105

```

<210> 1395
 <211> 108
 <212> PRT
 <213> Mus musculus

```

<400> 1395
Arg Trp Ala Pro Ile Pro Cys Ser Leu Met Glu Asn Ser Leu Gly Pro
 1          5          10          15
Phe Pro Gln His Ile Gln Gln Ile Gln Ser Asp Ala Ala Gln Asn Tyr
          20          25          30
Thr Ile Phe Tyr Ser Ile Ser Gly Pro Gly Val Asp Lys Glu Pro Tyr
          35          40          45
Asn Leu Phe Tyr Ile Glu Lys Asp Thr Gly Asp Ile Tyr Cys Thr Arg
          50          55          60
Ser Ile Asp Arg Glu Gln Tyr Asp Gln Phe Leu Val Tyr Gly Tyr Ala
65          70          75          80
Thr Thr Ala Asp Gly Tyr Ala Pro Asp Tyr Pro Leu Pro Leu Leu Phe
          85          90          95
Lys Val Glu Asp Asp Asn Asp Asn Ala Pro Tyr Phe
          100          105

```

<210> 1396
 <211> 108
 <212> PRT
 <213> Bos tarus

```

<400> 1396
Arg Trp Ala Pro Ile Pro Cys Ser Leu Met Glu Asn Ser Leu Gly Pro
 1          5          10          15
Phe Pro Gln His Val Gln Gln Val Gln Ser Asp Ala Ala Gln Asn Tyr
          20          25          30
Thr Ile Phe Tyr Ser Ile Ser Gly Pro Gly Val Asp Lys Glu Pro Phe
          35          40          45
Asn Leu Phe Phe Ile Glu Lys Asp Thr Gly Asp Ile Phe Cys Thr Arg
          50          55          60
Ser Ile Asp Arg Glu Gln Tyr Gln Glu Phe Pro Ile Tyr Ala Tyr Ala
65          70          75          80
Thr Thr Ala Asp Gly Tyr Ala Pro Glu Tyr Pro Leu Pro Leu Val Phe
          85          90          95
Lys Val Glu Asp Asp Asn Asp Asn Ala Pro Tyr Phe
          100          105

```

<210> 1397
 <211> 108

<212> PRT
 <213> Homo sapiens

<400> 1397

Arg	Trp	Ala	Pro	Ile	Pro	Cys	Ser	Met	Leu	Glu	Asn	Ser	Leu	Gly	Pro
1				5					10					15	
Phe	Pro	Leu	Phe	Leu	Gln	Gln	Val	Gln	Ser	Asp	Thr	Ala	Gln	Asn	Tyr
			20					25					30		
Thr	Ile	Tyr	Tyr	Ser	Ile	Arg	Gly	Pro	Gly	Val	Asp	Gln	Glu	Pro	Arg
		35					40					45			
Asn	Leu	Phe	Tyr	Val	Glu	Arg	Asp	Thr	Gly	Asn	Leu	Tyr	Cys	Thr	Arg
	50					55					60				
Pro	Val	Asp	Arg	Glu	Gln	Tyr	Glu	Ser	Phe	Glu	Ile	Ile	Ala	Phe	Ala
65					70					75					80
Thr	Thr	Pro	Asp	Gly	Tyr	Thr	Pro	Glu	Leu	Pro	Leu	Pro	Leu	Ile	Ile
			85						90					95	
Lys	Ile	Glu	Asp	Glu	Asn	Asp	Asn	Tyr	Pro	Ile	Phe				
			100					105							

<210> 1398
 <211> 108
 <212> PRT
 <213> Canis familiaris

<400> 1398

Arg	Trp	Ala	Pro	Ile	Pro	Cys	Ser	Met	Gln	Glu	Asn	Ser	Leu	Gly	Pro
1				5					10					15	
Phe	Pro	Leu	Phe	Leu	Gln	Gln	Ile	Gln	Ser	Asp	Thr	Ala	Gln	Asn	Tyr
			20					25					30		
Thr	Ile	Phe	Tyr	Ser	Ile	Arg	Gly	Pro	Gly	Val	Asp	Arg	Glu	Pro	Lys
		35					40					45			
Asn	Leu	Phe	Tyr	Val	Glu	Arg	Asp	Thr	Gly	Asn	Leu	Phe	Cys	Thr	Arg
	50					55					60				
Pro	Val	Asp	Arg	Glu	Glu	Tyr	Glu	Ser	Phe	Glu	Leu	Ile	Ala	Phe	Ala
65					70					75					80
Thr	Thr	Pro	Asp	Gly	Tyr	Thr	Pro	Glu	Leu	Pro	Leu	Pro	Leu	Val	Ile
			85						90					95	
Arg	Ile	Glu	Asp	Glu	Asn	Asp	Asn	Tyr	Pro	Ile	Phe				
			100					105							

<210> 1399
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1399

Arg	Trp	Ala	Pro	Ile	Pro	Cys	Ser	Met	Gln	Glu	Asn	Ser	Leu	Gly	Pro
1				5					10					15	
Phe	Pro	Leu	Phe	Leu	Gln	Gln	Val	Glu	Ser	Asp	Ala	Ala	Gln	Asn	Tyr
			20					25					30		
Thr	Val	Phe	Tyr	Ser	Ile	Ser	Gly	Arg	Gly	Val	Asp	Lys	Glu	Pro	Leu
		35					40					45			
Asn	Leu	Phe	Tyr	Ile	Glu	Arg	Asp	Thr	Gly	Asn	Leu	Phe	Cys	Thr	Arg
	50					55					60				

Pro Val Asp Arg Glu Glu Tyr Asp Val Phe Asp Leu Ile Ala Tyr Ala
 65 70 75 80
 Ser Thr Ala Asp Gly Tyr Ser Ala Asp Leu Pro Leu Pro Leu Pro Ile
 85 90 95
 Arg Val Glu Asp Glu Asn Asp Asn His Pro Val Phe
 100 105

<210> 1400
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 1400
 Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
 1 5 10 15
 Phe Pro Leu Phe Leu Gln Gln Val Gln Ser Asp Ala Ala Gln Asn Tyr
 20 25 30
 Thr Val Phe Tyr Ser Ile Ser Gly Arg Gly Ala Asp Gln Glu Pro Leu
 35 40 45
 Asn Trp Phe Phe Ile Glu Arg Asp Thr Gly Asn Leu Tyr Cys Thr Arg
 50 55 60
 Pro Val Asp Arg Glu Glu Tyr Asp Val Phe Asp Leu Ile Ala Tyr Ala
 65 70 75 80
 Ser Thr Ala Asp Gly Tyr Ser Ala Asp Leu Pro Leu Pro Leu Pro Ile
 85 90 95
 Lys Ile Glu Asp Glu Asn Asp Asn Tyr Pro Leu Phe
 100 105

<210> 1401
 <211> 108
 <212> PRT
 <213> Bos tarus

<400> 1401
 Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
 1 5 10 15
 Phe Pro Leu Phe Leu Gln Gln Val Gln Ser Asp Ala Ala Gln Asn Tyr
 20 25 30
 Thr Ile Phe Tyr Ser Ile Ser Gly Arg Gly Val Asp Lys Glu Pro Leu
 35 40 45
 Asn Leu Phe Phe Ile Glu Arg Asp Thr Gly Asn Leu Tyr Cys Thr Gln
 50 55 60
 Pro Val Asp Arg Glu Glu Tyr Asp Val Phe Asp Leu Ile Ala Tyr Ala
 65 70 75 80
 Ser Thr Ala Asp Gly Tyr Ser Ala Asp Phe Pro Leu Pro Leu Pro Ile
 85 90 95
 Arg Val Glu Asp Glu Asn Asp Asn His Pro Ile Phe
 100 105

<210> 1402
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1402

Arg	Trp	Ala	Pro	Ile	Pro	Cys	Ser	Met	Gln	Glu	Asn	Ser	Leu	Gly	Pro
1				5					10					15	
Phe	Pro	Leu	Phe	Leu	Gln	Gln	Val	Glu	Ser	Asp	Ala	Ala	Gln	Asn	Tyr
			20					25					30		
Thr	Val	Phe	Tyr	Ser	Ile	Ser	Gly	Arg	Gly	Val	Asp	Lys	Glu	Pro	Leu
		35					40					45			
Asn	Leu	Phe	Tyr	Ile	Glu	Arg	Asp	Thr	Gly	Asn	Leu	Phe	Cys	Thr	Arg
	50					55					60				
Pro	Val	Asp	Arg	Glu	Glu	Tyr	Asp	Val	Phe	Asp	Leu	Ile	Ala	Tyr	Ala
65					70					75					80
Ser	Thr	Ala	Asp	Gly	Tyr	Ser	Ala	Asp	Leu	Pro	Leu	Pro	Leu	Pro	Ile
			85						90					95	
Arg	Val	Glu	Asp	Glu	Asn	Asp	Asn	His	Pro	Val	Phe				
			100					105							